

Slobodyansky



1600

RAW SEQUENCE LISTING

DATE: 06/23/2003

PATENT APPLICATION: US/09/830,111C

TIME: 14:44:56

#20

Input Set : A:\21581-265.seq.ST25.txt

Output Set: N:\CRF4\06232003\I830111C.raw

3 <110> APPLICANT: Kaneka Corporation
 4 Matsuda, Hideyuki
 5 Kawamukai, Makota
 6 Yajima, Kazuyoshi
 7 Ikenaka, Yasuhiro
 8 Hasegawa, Junzo
 9 Takahashi, Satomi
 11 <120> TITLE OF INVENTION: Process For Producing Coenzyme Q10
 13 <130> FILE REFERENCE: 21581-00265-US
 15 <140> CURRENT APPLICATION NUMBER: 09/830,111C
 16 <141> CURRENT FILING DATE: 2001-07-23
 18 <160> NUMBER OF SEQ ID NOS: 2
 20 <170> SOFTWARE: PatentIn version 3.2
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 1653
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Saioella complicata
 27 <400> SEQUENCE: 1

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34	cgcctctctg	cgatcgggta	ccctaagaac	agcctcggca	ccttcattac	gactaagatg	240
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40	gtcaaatctt	acatccaaca	tccgatctct	cctcggttca	ggacaccctt	ctctcgacac	420
42	tgtcgctaaa	tactatgttc	agtctgaggg	aaagcatatt	cgtccgctca	tggtagtctg	480
44	gatggctcag	gcgacggagg	ttgcgccaaa	agttcagggt	tgggagaagg	tcgtggaggt	540
46	tccggtgaac	gagggactcg	caccaccaga	ggtgctcaat	ga'caagaacc	cagatatgat	600
48	gaacatgagg	tcaggaccat	taacgaagga	cggcgagatc	gagggacaga	cgtcgaatat	660
50	cctcgccctg	caacggcggt	tggctgagat	cacggagatg	atccatgcag	catcactcct	720
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60	gacgcaggaa	acgttcgatt	actatttgca	gaagacttac	ttgaagactg	cgtccttgat	1020
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66	ctacaccgtc	tccgctaccg	acctcggtaa	gcccgcgggt	gcagacctcc	agctcggtct	1200
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74	tcggacgttc	ccggagagtc	cggcacggaa	ggctttggag	cagttgacgg	acaagggtgt	1440
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78 ggcatgcaag cttggctgtt ttggcggatg agagaagatt ttcagcctga tacagattaa 1560
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100 Arg Leu Arg Cys Thr Pro Thr Ser Arg Pro Ser Ser Ser Trp Ala Ala
101 35 40 45
104 Ala Val Ser Ser Ala Ser Arg Leu Val Glu Pro Asp Pro Asn Gln Pro
105 50 55 60
108 Leu Ile Asn Pro Leu Asn Leu Val Gly Pro Glu Met Ser Asn Leu Thr
109 65 70 75 80
112 Ser Asn Ile Arg Ser Leu Leu Gly Ser Gly His Pro Ser Leu Asp Thr
113 85 90 95
116 Val Ala Lys Tyr Tyr Val Gln Ser Glu Gly Lys His Ile Arg Pro Leu
117 100 105 110
120 Met Val Leu Leu Met Ala Gln Ala Thr Glu Val Ala Pro Lys Val Gln
121 115 120 125
124 Gly Trp Glu Lys Val Val Glu Val Pro Val Asn Glu Gly Leu Ala Pro
125 130 135 140
128 Pro Glu Val Leu Asn Asp Lys Asn Pro Asp Met Met Asn Met Arg Ser
129 145 150 155 160
132 Gly Pro Leu Thr Lys Asp Gly Glu Ile Glu Gly Gln Thr Ser Asn Ile
133 165 170 175
136 Leu Ala Ser Gln Arg Arg Leu Ala Glu Ile Thr Glu Met Ile His Ala
137 180 185 190
140 Ala Ser Leu Leu His Asp Asp Val Ile Asp Ala Ser Glu Thr Arg Arg
141 195 200 205
144 Asn Ala Pro Ser Gly Asn Gln Ala Phe Gly Asn Lys Met Ala Ile Leu
145 210 215 220
148 Ala Gly Asp Phe Leu Leu Gly Arg Ala Ser Val Ala Leu Ala Arg Leu
149 225 230 235 240
152 Arg Asn Pro Glu Val Ile Glu Leu Leu Ala Thr Val Ile Ala Asn Leu
153 245 250 255
156 Val Glu Gly Glu Phe Met Gln Leu Lys Asn Thr Val Asp Asp Ala Ile
157 260 265 270
160 Glu Ala Thr Ala Thr Gln Glu Thr Phe Asp Tyr Tyr Leu Gln Lys Thr
161 275 280 285
164 Tyr Leu Lys Thr Ala Ser Leu Ile Ala Lys Ser Cys Arg Ala Ser Ala
165 290 295 300
168 Leu Leu Gly Gly Ala Thr Pro Glu Val Ala Asp Ala Ala Tyr Ala Tyr
169 305 310 315 320
172 Gly Arg Asn Leu Gly Leu Ala Phe Gln Ile Val Asp Asp Met Leu Asp

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176 Tyr Thr Val Ser Ala Thr Asp Leu Gly Lys Pro Ala Gly Ala Asp Leu
177              340              345              350
180 Gln Leu Gly Leu Ala Thr Ala Pro Ala Leu Phe Ala Trp Lys His His
181              355              360              365
184 Ala Glu Leu Gly Pro Met Ile Lys Arg Lys Phe Ser Asp Pro Gly Asp
185              370              375              380
188 Val Glu Arg Ala Arg Glu Leu Val Glu Lys Ser Asp Gly Leu Glu Lys
189 385              390              395              400
192 Thr Arg Ala Leu Ala Glu Glu Tyr Ala Gln Lys Ala Leu Asp Ala Ile
193              405              410              415
196 Arg Thr Phe Pro Glu Ser Pro Ala Arg Lys Ala Leu Glu Gln Leu Thr
197              420              425              430
200 Asp Lys Val Leu Thr Arg Ser Arg
201              435              440

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VERIFICATION SUMMARY

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